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**DROP YOUR PROBLEMS  
INTO OUR SOLUTION.  
THEN DROP IN AGAIN AND AGAIN.**



# Medical-Surgical Division 3M

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## Sales Branches

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## Ordering Information

Product Description	Quantity	Product Description	Quantity
1 GALLON UNIT	1	1 gallon bottle of solution and 5.4 oz bottle of activator	4
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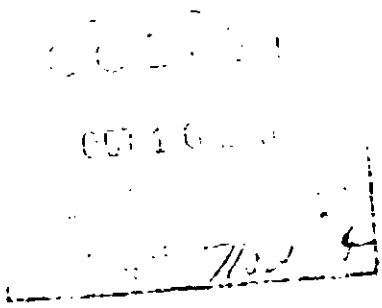
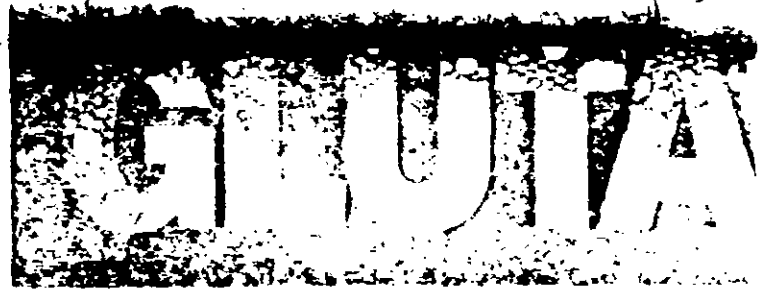
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Infection Control Products  
Medical Surgical Division 3M



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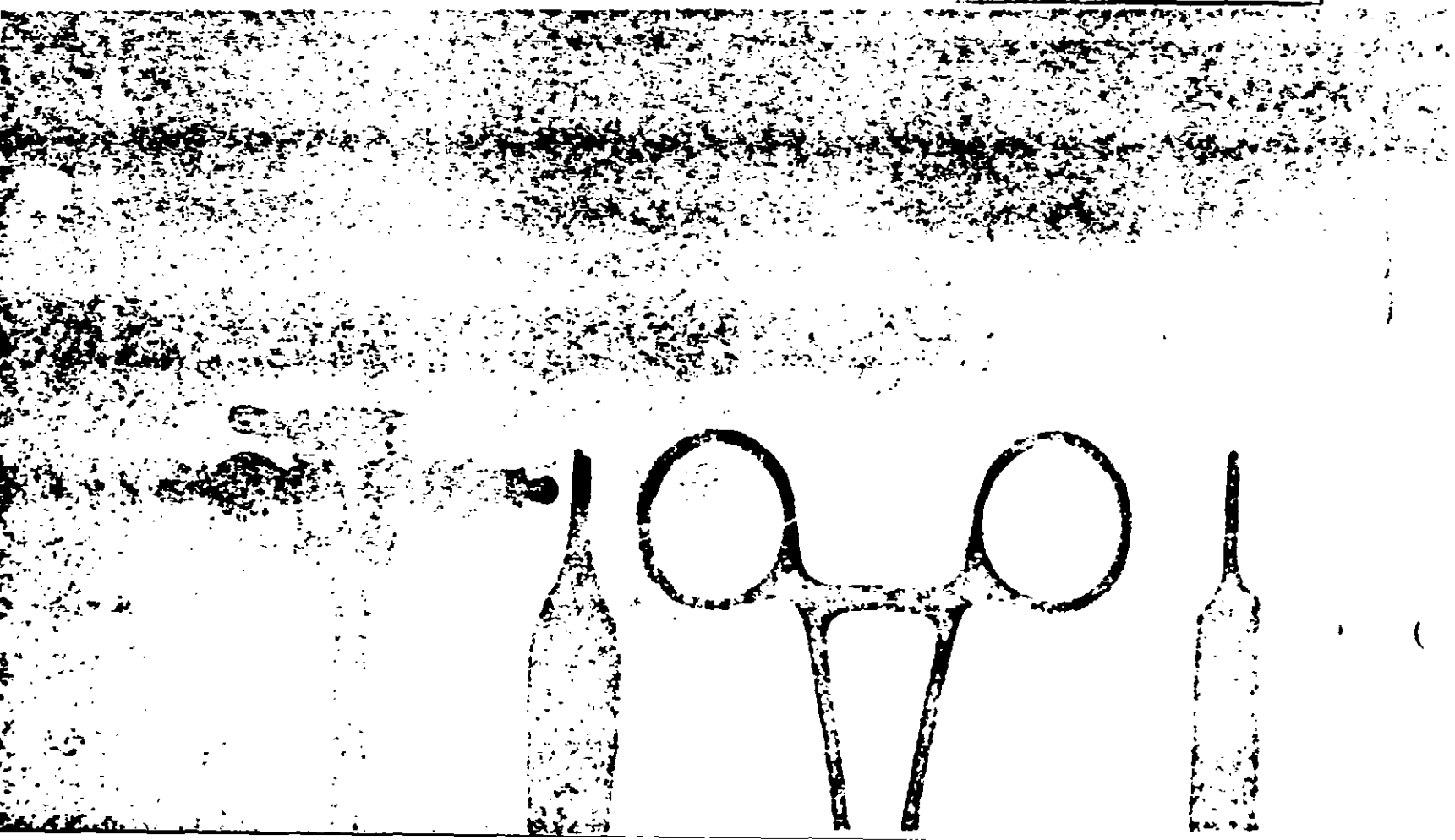


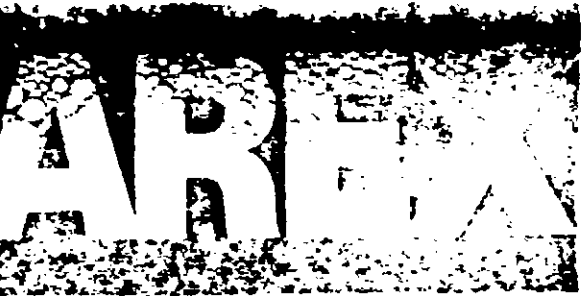
Once you've used Glutarox Solution for disinfection, you'll be happy to know you can use it again. And again. (For up to 28 days or 140 cycles after activation, whichever comes first\*) — whether for multiple disinfections or single disinfections. Glutarox Solution brings you the confidence of confidence. It's the only disinfectant that's been proven to be effective against all the germs that cause disease.

3M Glutarox Solution is simple to use, broad spectrum, high level disinfecting/sterilizing agent composed of a 2% glutaraldehyde solution and a liquid activator. It disinfects in just ten minutes at room temperature. And sterilizes in ten hours. It kills bacteria, fungi, viruses, tuberculosis, and prions.

Glutarox Solution is a low surface tension liquid that spreads easily over surfaces. It's also a colorless, odorless liquid that's safe to use on most surfaces. It's also safe for your hands. And it's safe for the environment. It's the only disinfectant that's been proven to be effective against all the germs that cause disease.

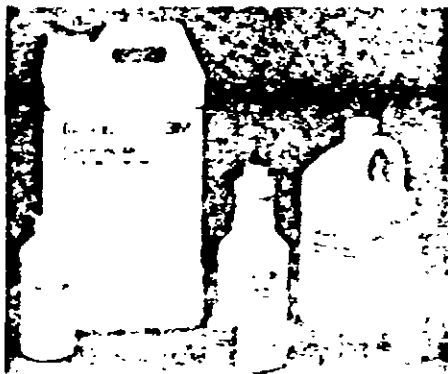
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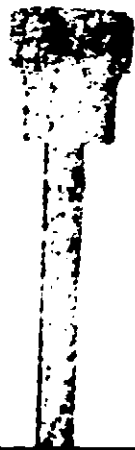


Turn to the leaders in infection control

Based on over 30 years of experience in infection control, Gutarol has developed a line of disinfectants to serve your needs. With the Gutarol Solution... and drying cabinets...

So turn to the leader in the solution you can use for sterilization... as a reusable disinfectant... Gutarol Solution...

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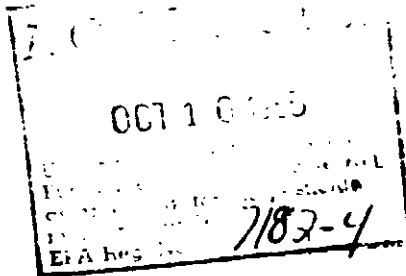
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\* PRODUCT PROFILE

GLUTAREX™  
DISINFECTING AND  
STERILIZING SOLUTION



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PRODUCT PROFILE

I. General

Instruments used in direct patient care are generally placed into one of two categories: (1) sterile disposables, and (2) instruments that are reprocessed and reused. The reprocessing cycle includes decontamination, cleaning, disinfection and/or sterilization.

3M's Glutarex™ Disinfecting and Sterilizing Solution can be used with confidence throughout all phases of the reprocessing cycle, from decontamination or disinfection through sterilization.

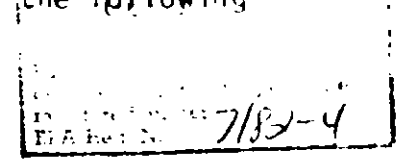
II. Product Description

Glutarex Disinfecting and Sterilizing Solution is a broad-spectrum high level\* disinfecting/sterilizing agent. It consists of a 2% glutaraldehyde solution and a liquid activator solution containing a corrosion inhibitor. The product is activated by adding the liquid activator to the 2% glutaraldehyde solution. Once activated, the green colored solution is buffered to a nearly neutral pH (7.0-7.5). Shelf life of unactivated solution is 2 years. The activated solution has a 28-day shelf life.

Sterilizing and Disinfecting Claims

Glutarex Disinfecting and Sterilizing Solution has the following antimicrobial claims:

- a. sterilization after 10 hours immersion;
- b. disinfection after 10 minutes immersion.



The disinfection claims that have been documented include activity against bacteria, fungi, Mycobacterium tuberculosis var. bovis and lipophilic and hydrophilic viruses.

Use Instructions:

Activation:

Remove the caps from both the small activator container and the large glutaraldehyde solution container and empty the contents of the smaller container into the large container. Replace the cap tightly on the larger container and invert slowly several times to ensure complete mixing. The activated solution, now green, is ready to use.

\*Block, S.S., 1983. Disinfection, Sterilization and Preservation. 3rd Edition. Philadelphia, Lea & Febiger, pp. 472-475.

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Directions for Use:

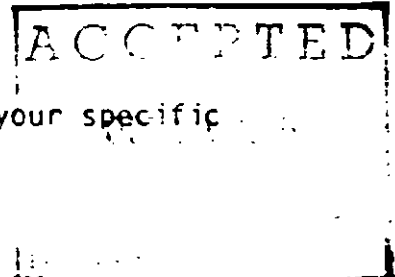
For disinfection or sterilization of medical instruments and equipment, the items should be disassembled as necessary, thoroughly cleaned, rinsed, and excess water removed prior to immersion in activated solution. Care must be taken to ensure that the solution contacts all surfaces of the items being processed. This may require repeated flushing of small lumens. Avoid entrapment of air bubbles on irregularly contoured surfaces. After immersion in the solution, it is essential that the instrument or equipment be thoroughly rinsed with sterile or microbiologically acceptable water. In general, rinsing should be continued until the surfaces are no longer slippery.

a. for DISINFECTION by the MANUAL method:

Immerse item completely for a minimum of 10 minutes at room temperature.

b. For DISINFECTION by AUTOMATIC processor:

Follow manufacturer's directions for use in your specific decontamination machine.



c. For STERILIZATION:

Immerse items completely for a minimum of 10 hours at room temperature.

d. For PRECLEANING SOAK treatment:

Place items from septic cases directly into the solution until final cleaning and disinfection or sterilization.

NOTE: This solution does not coagulate blood.

Contraindications:

Glutarex Disinfecting and Sterilizing Solution will not prevent or remove oxidation caused by poor or improper plating, cleaning, or care of instruments. Electrolytic corrosion may occur when two or more dissimilar metals are present in the same solution for 24 hours or longer. If metal trays are used, a plastic mat or gauze pad should be placed in the bottom of the tray to prevent metal-to-metal contact during soaking periods of up to 24 hours.

Precautions:

Wear Protective Glasses and Rubber Gloves When Mixing and for all Subsequent Handling of the Product.

**Danger:**

Causes severe EYE irritation and may cause permanent eye damage. AVOID contact with SKIN and clothing. AVOID contamination of FOOD. MAY BE HARMFUL IF SWALLOWED. Use in ventilated area.

If EYE contact occurs, flush IMMEDIATELY and THOROUGHLY with water. Get medical attention. If SKIN contact occurs, wash thoroughly with water. Wash clothing. The precautions apply to the handling of all glutaraldehyde products.

**Storage and Disposal:**

Store the container and any of its unused contents in a cool safe area reserved for such disinfecting or sterilizing products. This should be away from drugs, medicines, or food supplies. Do not contaminate water, food, or feed by storage or disposal.

This product must be kept in secured storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

Do not re-use empty container.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or ENVIRONMENTAL Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL INSTRUCTIONS - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**III. Product Biocidal Features**

The formula for this product is 2% aqueous glutaraldehyde, a proprietary blend of salts and surfactants, and a corrosion inhibitor in a buffered system. This formulation provides for chemical stability and a high level biocidal activity. Glutarex Disinfecting and Sterilizing Solution has the following biocidal features:

- a. it is a sterilant, not merely a disinfectant;
- b. it is sporicidal, tuberculocidal, fungicidal, virucidal (both lipophilic and hydrophilic), pseudomonocidal, and bactericidal;
- c. it is reusable\* for disinfection up to 28 days or 140 cycles after activation, whichever comes first.

\*Limited to single use for sterilization, and also for disinfection when TB is suspected.



Registration Testing:

The test procedures employed to substantiate sterilization, disinfection, fungicidal, and tuberculocidal claims are described in the Office Methods of Analysis of The Association of Official Analytical Chemists (AOAC), 14th Edition, 1984, official final action pp. 67-74. Standardized tests for virucidal claims do not appear in the AOAC, 1984. The procedures employed for the virucidal testing were developed by Morton Klein, Temple University.

These tests demonstrate Glutarex Disinfecting and Sterilizing Solution to be a 10-hour sterilant and a 10-minute disinfectant, having bactericidal, fungicidal, tuberculocidal, and virucidal (Influenza A<sub>2</sub> (England), herpes Simplex Type 1, Poliovirus Type 1, and Adenovirus Type 5) activity. The viruses tested represented both lipophilic and the more resistant hydrophilic organisms such as Poliovirus.

IV. Product Physical-Chemical Features

Glutarex Disinfecting and Sterilizing Solution has the following in-use features:

- a. Excellent wetting and penetration properties
- b. Reduced in-use solution loss and cost
- c. Corrosion-inhibiting properties
- d. Excellent chemical stability
- e. Liquid activator for rapid, reliable mixing.

a. Excellent Wetting and Penetration Properties

Glutaraldehyde solutions are commonly used for the disinfection and sterilization of clean instruments or as a pre-soak of soiled instruments prior to final cleaning and terminal disinfection and sterilization. Cold chemical disinfection and sterilization require effective contact between the solution and the instrument.

Small lumens and box locks require good wetting properties in a liquid disinfectant/sterilant to achieve consistent coverage of these hard-to-reach areas, especially when processing conditions are not ideal. Glutarex Disinfecting and Sterilizing Solution has significantly reduced surface tension properties which promote uniform wetting of surfaces. For comparison, water has a surface tension of 72.1 dynes/cm<sup>2</sup>, whereas Glutarex Disinfecting and Sterilizing Solution has a surface tension of only 29.4 dynes/cm<sup>2</sup>\*.

\*Additional data on file at 3M.

### b. Reduced In-Use Solution Loss and Costs

Reductions in cost are achieved with lower solution loss during use. This is accomplished through the inclusion of a hydrotrope in the surfactant system that allows instruments processed in Glutarex Disinfecting and Sterilizing Solution to drain more completely than in competitive solutions. Less solution is carried over into the rinse water and wasted. Laboratory evaluations indicated that corrugated anesthesia tubing removed 40-50% less volume of Glutarex Solution than it did of a competitive 2% glutaraldehyde solution.

Comparison of Solution Loss\* Between  
the "Glutarex" Solution  
and a 14-day Dialdehyde Solution



\*Procedure: Ten (10) pieces of corrugated IM Disposable Tubing were immersed in 100 ml of disinfectant for 30 seconds and removed. One at a time, allowing each tube to drain for 5 seconds.

### c. Corrosion Inhibited

Glutarex Disinfecting and Sterilizing Solution contains a corrosion inhibitor to allow the solution to be compatible with all types of metal commonly used in instruments and equipment.

### d. Excellent Chemical Stability

The presence of a unique buffering system and a nearly neutral pH allows for stability of the glutaraldehyde solution. The importance of this stability is that Glutarex Disinfecting and Sterilizing Solution can be used according to directions up to 28 days after activation. Therefore, extended chemical stability is achieved without loss of antimicrobial activity.

### e. Liquid Activator for Rapid, Reliable Mixing

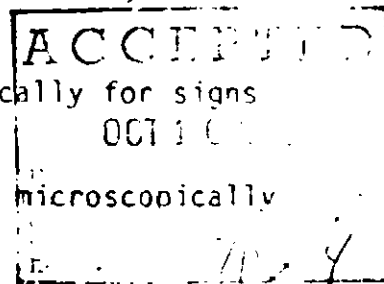
The Glutarex Activator Solution offers the user increased confidence in fast, reliable, and complete mixing of the activated glutaraldehyde. Powder activators do not dissolve immediately, and therefore require additional care in preparation and examination to ensure complete mixing.

### V. Material Compatibility

There is a wide variety of instruments and equipment that hospitals reprocess with liquid chemical disinfectants. In order to evaluate the material effects of Glutarex Disinfecting and Sterilizing Solution, instruments, equipment, or materials were stress tested by soaking continuously for 30 days. The following materials were evaluated: aluminum, carbide steel, tungsten carbide, carbon steel, stainless steel, zinc, chrome-plated steel, copper, chrome-plated brass, polyvinyl chloride, polycarbonate, polyethylene, polypropylene, neoprene tubing, silicone rubber, latex tubing, and Kraton tubing.

At periodic intervals and at the conclusion of the evaluation, each of the materials was examined as follows:

- a. Metals were examined both visually and microscopically for signs of pitting, rusting, or staining.
- b. Flexible plastics were examined both visually and microscopically for signs of degradation.
- c. Rigid plastics were visually examined for signs of cracking or crazing.



Results: After 30 days of continuous soaking, none of the samples showed adverse material effects resulting from immersion in Glutarex Disinfecting and Sterilizing Solution.

### VI. Summary

Glutarex Disinfecting and Sterilizing solution is the solution of choice for broad-spectrum disinfection and sterilization. It is effective---and safe to use with your instruments, and has excellent wetting and penetration properties. The solution is stable over 28 days, and may be reused for disinfection (when TB is not suspected). This solution can be used with confidence in many specialized areas, such as the operating room, anesthesiology, endoscopy, respiratory therapy, urology, and central service, as well as in surgery centers and dental offices.

Outside of the United States, contact the local 3M Subsidiary.  
In Canada: 3M Canada, Inc., P.O. Box 5757, London, Ontario  
N6A 4T1, 1-800-268-9696.

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# DROP IN FORMAN ENCORE PERFORMANCE ON COOLING INSTRUMENTS.

## FORMAN SOLUTION

Use Forman's solution for reliable sterilization.  
Or as a reusable disinfectant.

Forman's solution is a powerful disinfectant and sterilant. It is used for the sterilization of instruments, equipment, and surfaces. It is also used as a reusable disinfectant for instruments and equipment. Forman's solution is a powerful disinfectant and sterilant. It is used for the sterilization of instruments, equipment, and surfaces. It is also used as a reusable disinfectant for instruments and equipment.

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### 3M's solution for maximum convenience

3M Glutarex Solution is a simple-to-use, broad-spectrum high-level disinfecting/sterilizing agent composed of a 2% glutaraldehyde solution and a liquid activator. It disinfects in just 10 minutes at room temperature. And sterilizes in ten hours. The activated solution is sporicidal, tubercleocidal, fungicidal, virucidal, bactericidal, and bacteriostatic.

Use 3M Glutarex Solution as follows:

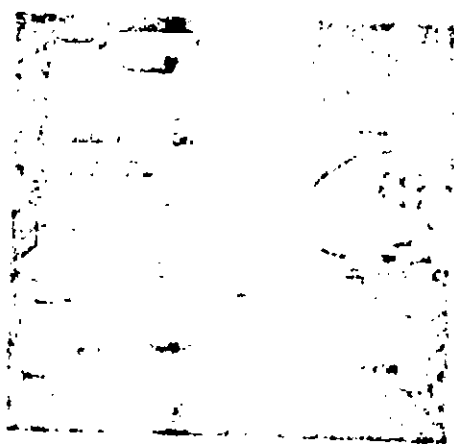
- Excellent wetting and penetration properties. For coverage on all surfaces of instruments—even hard to reach areas.
- Corrosion inhibitors. Compatible with all types of instruments.
- Liquid activator. For fast, reliable, complete mixing.
- Easy to use.
- Most effectiveness.

**ACCEPTED**

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*[Handwritten signature]*

3M Glutarex Solution has been tested and found to be effective against all types of bacteria, including tubercle bacilli, and against all types of fungi, including the most resistant spores. It is also effective against all types of viruses, including the most resistant. It is safe for all types of instruments, including stainless steel, aluminum, and plastic. It is also safe for all types of surfaces, including skin and mucous membranes. It is also safe for all types of clothing, including cotton, wool, and silk. It is also safe for all types of food, including meat, poultry, and fish. It is also safe for all types of household surfaces, including walls, floors, and furniture. It is also safe for all types of vehicles, including cars, trucks, and buses. It is also safe for all types of equipment, including cameras, microscopes, and X-ray machines. It is also safe for all types of laboratory equipment, including pipettes, flasks, and beakers. It is also safe for all types of medical equipment, including catheters, syringes, and needles. It is also safe for all types of dental equipment, including X-ray machines, dental chairs, and dental instruments. It is also safe for all types of surgical equipment, including scalpels, forceps, and scissors. It is also safe for all types of ophthalmic equipment, including contact lenses, eyeglasses, and contact lens solutions. It is also safe for all types of contact lenses, including soft contact lenses and hard contact lenses. It is also safe for all types of contact lens solutions, including contact lens solutions for soft contact lenses and contact lens solutions for hard contact lenses. It is also safe for all types of contact lens solutions, including contact lens solutions for soft contact lenses and contact lens solutions for hard contact lenses. It is also safe for all types of contact lens solutions, including contact lens solutions for soft contact lenses and contact lens solutions for hard contact lenses.



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